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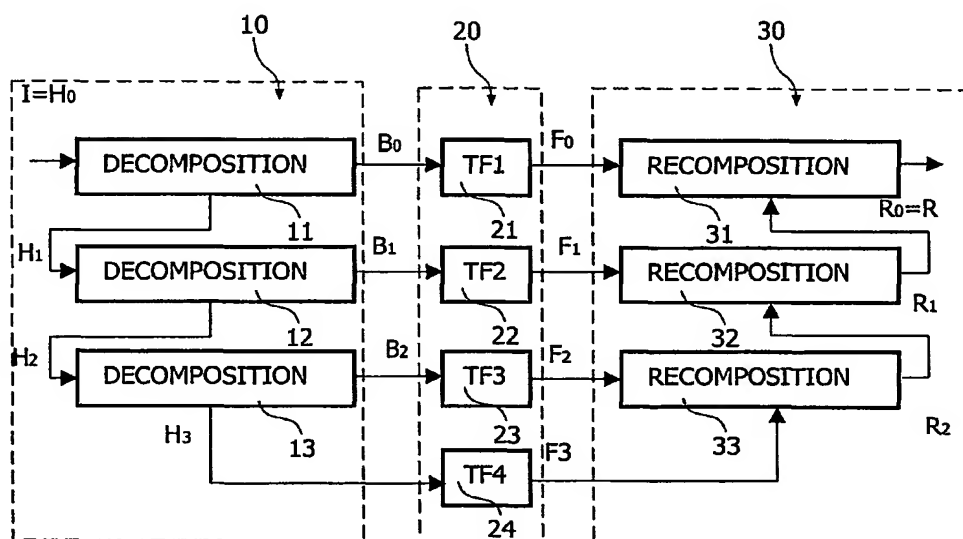
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(54) Title: MEDICAL IMAGING SYSTEM WITH TEMPORAL FILTER



(57) Abstract: The invention relates to an image processing system for reduction of the noise and enhancement of edges in images of a sequence, comprising means of decomposition of spatial image signal yielding slices of different content; means of temporal filtering for differently filtering the slices according to the content; and means of recomposition of the images of the sequence from the temporally filtered slices. The decomposition may be performed using means of pyramidal decomposition. The means of temporal filtering may comprise motion compensation and/or recursive adaptive filtering. This system may further comprise imaging means for displaying the images of the sequence. The invention further relates to a medical examination apparatus coupled to this system.

**Declaration under Rule 4.17:**

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